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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

By:

Robert J. Hariri

Confirmation No.:

2020

Serial No.:

10,779,369

Art Unit:

1632

Filed:

February 13, 2004

Examiner:

To be Assigned

For:

USE OF UMBILICAL CORD BLOOD TO TREAT INDIVIDUALS HAVING A

Attorney Docket No.:

9516-141-999

DISEASE, DISORDER OR CONDITION

(CAM:)

(501872-999140)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 C.F.R. §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the application.

1.	Enclosures accompanying this Information Disclosure Statement are:					
	la.	A list of all patents, publications, applications, or other information submitted for consideration by the office.				
	1b.	A legible copy of:				
		Each U.S. patent application publication and foreign patent;				
		Each publication or that portion which caused it to be listed on the PTO-1449;				
		For each cited pending U.S. application, the application specification including the claims, and any drawing of the application, or portion of the application which caused it to be listed on the PTO-1449 including any claims directed to that portion;				
		☑ all other information or portion which caused it to be listed on the PTO-1449.				
	1c.	An English language copy of search report(s) from a counterpart foreign application or PCT International Search Report.				
	1 d.	Explanations of relevancy (ATTACHMENT 1(d), hereto) or English language abstracts of the non-English language publications.				
2.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b): Within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);				
		Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;				

		Before the mailing of the first Office action on the merits;
		Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
3.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.
		(Check either Item 3a or 3b)
	3a.	☐ The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.
	3b.	The \$180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is: enclosed
		to be charged to Jones Day Deposit Account No. 50-3013.
		(Item 3b to be checked if any reference known for more than 3 months)
4.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.
	The Ce	rtification Statement in Item 5 below is applicable.
		The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is: — enclosed. — to be charged to Jones Day Deposit Account No. 50-3013
5.		
<i>J</i> .		Certification Statement (applicable if Item 3a or Item 4 is checked)
		(Check either Item 5a or 5b)
	5a.	In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
	5b.	Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.
	5c.	Pursuant to 37 C.F.R. §1.704(d), each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.
6.		This application is a continuation application under 37 C.F.R. §1.60 or §1.53(b) or (d).
		\-/-

-2- CAJD507368.1

(Check appropriate Items 6a, 6b and/or 6c)

	ба.	A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrently filed herewith.
	6b.	Copies of publications listed on Form PTO-1449 from prior application Serial No. , filed on , of which this application claims priority under 35 U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).
	6c.	Copies of the publications listed on Form PTO-1449 were not previously cited in prior application Serial No. , filed on , and are provided herewith.
7.		This is a Supplemental Information Disclosure Statement.
	7a.	This Supplemental Information Disclosure Statement under 37 C.F.R. §1.97(f) supplements the Information Disclosure Statement filed on . A bona fide attempt was made to comply with 37 C.F.R. §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental Information Disclosure Statement can be considered as if properly filed on .
8.		In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:
		(Check Item 8a, 8b, or 8c)
	8a.	satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.
	8b.	set forth in the application.
	8c.	enclosed as an attachment hereto.
9.	\boxtimes	The Commissioner is authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement and/or Petition to Jones Day Deposit Account No. 50-3013.
10.		No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than a search report of a foreign counterpart application or PCT International Search Report if submitted herewith). 37 C.F.R. §§1.97(g) and (h).
		Respectfully submitted,
Date:	Janua	ry 26, 2005 Lawrence S. Graham for Anthony M. Insogna (Reg. No.) JONES DAY
		222 East 41 st Street New York, New York 10017 (212) 326-3939

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LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

ATTY DOCKET NO. 9516-141-999	APPLICATION NO
(501872-999140)	10/779,369
APPLICANT	CONFIRMATION NO.:
HARIRI, Robert J.	2020
FILING DATE	ART UNIT:
February 13, 2004	1632

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIAT
	Al	2001/0038836	11/08/01	During et al.	424	93.7	
	A2	2002/0028510	03/07/02	Sanberg et al.	435	368	
·	A3	2002/0086005	07/04/02	Chiu et al.	424	93.21	
	A4	5,004,681	04/02/91	Boyse et al.	435	2	
	A5	5,192,553	03/09/93	Boyse et al.	424	529	·
<u>. </u>	A6	5,372,581	12/13/94	Anderson	604	32	
	A7	5,415,665	05/16/95	Hessel et al.	606	120	· · · · ·
	A8	5,643,741	07/01/97	Tsukamoto et al.	435	7.24	
	A9	5,646,043	07/08/97	Emerson et al.	435	3773	
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	A12	5,670,147	09/23/97	Emerson et al.	424	93.1	
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	A21	5,858,782	01/12/99	Long et al.	435	372	
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		FOREIG	N PATENT DOCUMENTS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION
						YES	NO
Bl	WO 99/64566	12/30/99	PCT				

	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)
CI	Chen, R. & Ende, N., 'The Potential for the Use of Mononuclear Cells From Human Umbilical Cord in the Treatmen of Amyotrophic Lateral Sclerosis in SOD1 Mice," <i>Journal of Medicine</i> 31(1-2):21-30 (2000)
C2	Ende, M. et al., "Hemapoetic Transplantation By Means of Fetal (Cord) Blood: A New Method," Va Med Mon 99:276-280 (1972)
C3	Ende N. "Collection of Umbilical Cord Blood for Transplantation," Blood 80(6):1623-1624 (1992)
C4	Ende, "The Feasibility of Using Blood Bank Stored (4°C) Cord Blood, Unmatched for HLA for Marrow Transplantation," Am. J. Clin. Pathol. 111:773-781 (1999)
C5	Ende et al., "Human Umbilical Cord Blood Effect On Sod Mice (Amyotrophic Lateral Sclerosis)," Life Sci. 67:53-59 (2000)
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C7	Ende, N. & Chen R., "Human Umbilical Cord Blood Cells Ameliorate Huntington's Disease in Transgenic Mice," Journal of Medicine 32(3-4):231-240 (2001)
C8	Ende, N. & Chen R., "Human Umbilical Cord Blood Cells Ameliorate Alzheimer's Disease in Transgenic Mice," Journal of Medicine 32(3-4):241-247 (2001)
С9	Ende, N. & Chen R., "Parkinson's Disease Mice and Human Umbilical Cord Blood," <i>Journal of Medicine</i> 33(1-4):173-180 (2002)
C10	Ende, N., "Berashis Cells in Human Umbilical Cord Blood Vs. Embryonic Stem Cells," <i>Journal of Medicine</i> 33(1-4):167-171 (2002)
C11	Rameshwar et al., "Endogenous Hematopoietic Reconstitution Induced by Human Umbilical Cord Blood Cells in Immunocompromised Mice: Implications for Adoptive Therapy," Experimental Hematology 27:176-185 (1999)
C12	Viacord, Umbilical Cord Blood Can Save Lives (Information brochure), Boston: ViaCell CENTR-BRO R1 10/01 (2001)
C13	Wang et al., "Enhanced Recovery of Hemapoietic Progenitor and Stem Cells from Cultivated, Postpartum Human Placenta," Blood 68:183, abstract 769 (2001)
C14	Ashihara et al., "Successful Peripheral Blood Stem Cell Transplantation for Myelodysplastic Syndrome," Bone Marrow Transplantation 24(12:1343-1345 (1999)
C15	Cardoso et al., "Release From Quiescence of CD34+ CD38- Human Umbilical Cord Blood Cells Reveals Their Potentiality to Engraft Adults," Proc Natl Acad Sci USA 90(18):8707-8711 (1993)
C16	Gluckman et al., "Cord Blood Hematopoietic Stem Cells: Bilogy and Transplantation," In: Hematology, American Society of Hematology Education program Book, 1998, p.1-14
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C18	Hows "Status of Umbilical Cord Blood Transplantation in the Year 2001," J Clin Pathol 54(6):428-434 (2001)
C19	Kondo et al., "Reduced Interferon Gamma Production by Antigen-Stimulated Cord Blood Mononuclear Cells is a Ris Factor of Allergic Disorders - 6-Year Follow-up Study," Clin Exp Allergy 28(11):1340-1344 (1998)
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	EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.